

Patent Abstracts of Japan

PUBLICATION NUMBER : 2002079941
PUBLICATION DATE : 19-03-02

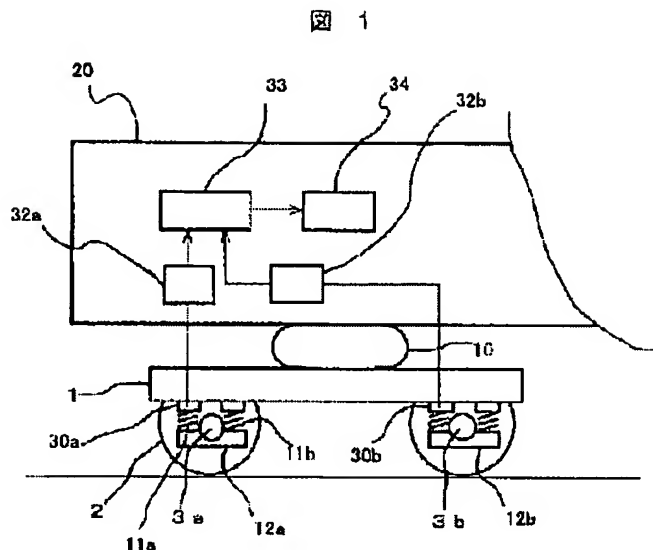
APPLICATION DATE : 05-09-00
APPLICATION NUMBER : 2000273529

APPLICANT : HITACHI LTD;

INVENTOR : HIRAISHI MOTOSANE;

INT.CL. : B61F 9/00

TITLE : ROLLING STOCK



ABSTRACT : PROBLEM TO BE SOLVED: To secure safety of traveling rolling stock by detecting derailment and detachment of a wheel as a result of the floating wheel or derailment and detachment of the wheel as a result of the wheel running on a rail due to increased lateral force while the rolling stock travels.

SOLUTION: In the rolling stock, a body 5 is supported on a truck frame 1, axles 3a, 3b and the wheels 2 support the truck frame 1, and axle box suspensions 12a, 12b support the axles 3a, 3b by means of coil springs 11a, 11b or rubber. Vertical load detectors 10a, 30b, 30c, 30d are used between the axle box suspensions 12a, 12b and the truck frame 1 to detect vertical load. A comparison operator 33 is used to perform comparative operation on detected results of the vertical load detectors, and an alarm 34 is operated according to a detected result of the comparison operator 33. Thus, speed of the rolling stock is reduced, and the rolling stock is brought to an emergency stop.

COPYRIGHT: (C)2002,JPO

BEST AVAILABLE COPY